BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction Govt School Building at kodige halli ward No 8

Est Cost: 95.0Lakh

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 (Page no -5, item no - 2.3)								
	school building								
	Verandah Portion	1	1	30.70	0.80	0.60	14.74		
	Staircase Footing		2	1.90	2.20	1.65	13.79		
	Compound Wall		1	59.00	0.80	0.85	40.12		
	Total Qty	**Cum**					**68.65**	**204.12**	**14012.84**
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 465 cum machine mixed, machine mixed,concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation and plinth, including cost of all material, labour HOM Machinery curing complete as per specification,(Page. No. 12 Item No. 4.2								
	Verandah Portion								
	Foundation	1	1	30.70	0.80	0.15	3.68		
	Staircase Footing		2	1.90	2.20	0.15	1.25		
	Compound Wall		1	59.00	0.80	0.15	7.08		
	Total Qty	**Cum**					**12.02**	**5449.68**	**65494.25**
3	KSRB 5.1-3 : Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:6 (uncoursed), bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.12(Page. No. 22 Item No.5.3)								
	Verandah Portion								
	Foundation		1	30.70	0.60	0.45	8.29		
	Compound Wall		1	59.00	0.60	0.45	15.93		
	Total Qty	**Cum**					**24.22**	**3508.92**	**84982.53**
4	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13(Page. No. 23 Item No. 5.9								
	Verandah Portion								
	Foundation		1	30.70	0.45	0.45	6.22		
	Compound Wall		1	59.00	0.45	0.45	11.95		

	Total Qty	**Cum**					**18.16**	**5405.40**	**98185.04**
5	*KSRB 15.1.4 Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.*								
	Verandah Portion								
	Pointing	*1*	*2*	*30.70*		*0.45*	*27.63*		
		1	*2*	*30.70*		*0.45*	*27.63*		
	Compound Wall		*2*	*59.00*		*0.45*	*53.10*		
			2	*59.00*		*0.45*	*53.10*		
	Total Qty	**Cum**					**161.46**	**102.60**	**16565.80**
6	*KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6 of PWD SR 2016-17)*								
	Coping								
	Foundation	*1*	*1*	*30.70*	*0.45*	*0.10*	*1.38*		
	Compound Wall		*1*	*59.00*	*0.45*	*0.10*	*2.66*		
	Total Qty	**Cum**					**4.04**	**5876.28**	**23719.60**
7	*KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.5 of PWD SR 2015-16)*								
	Flooring								
	Verandah	*1*	*1*	*25.90*	*2.20*	*0.10*	*5.70*		
	Total Qty	**Cum**					**5.70**	**5985.36**	**34104.58**
8	*KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (Page No : 16, item No : 4.28)*								
	Staircase Footing		*2*	*7.40*		*0.45*	*6.66*		
							6.66	**249.48**	**1661.54**
	Basic rate	*231.00*							
	lift charges per floor	*0.00*							
	Area Weightage 8%	*18.48*							
	Final Rate	***249.48***							
9	*KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page No : 16, item No : 4.32)*								

	Ground Floor								
	Columns at Staircase								
	0.2+0.2+0.45+0.45=1.3		2	1.30		3.00	7.80		
							7.80	**395.28**	**3083.18**
	Basic rate	366.00							
	lift charges per floor	0.00							
	Area Weightage 8%	29.28							
	Final Rate	**395.28**							
	first floor								
	Columns								
	0.2+0.2+0.45+0.45=1.3		10	1.30		3.00	39.00		
	0.2+0.2+0.45+0.45=1.3		10	1.30		3.00	39.00		
	for verandah beam		2	26.00		0.30	15.60		
			4	2.50		0.30	3.00		
							96.60	**400.68**	**38705.69**
	Basic rate	366.00							
	lift charges per floor	5.00							
	Area Weightage 8%	29.68							
	Final Rate	**400.68**							
10	KSRB 4-6.11 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2								
	stair case ground &first		sqm						
	Risers	2	13	1.5		0.15	5.85		
	Risers	2	9	1.5		0.15	4.05		
	Bottom waist slab	2	1	1.5		3.90	11.70		
		2	1	1.5		2.70	8.10		
		2	1	1.95		0.15	0.59		
		2	1	1.35		0.15	0.41		
							30.69	**518.40**	**15909.70**
	Basic rate	475.00							
	lift charges per floor	5.00							
	Area Weightage 8%	38.40							
	Final Rate	**518.4**							
11	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page No : 16, item No : 4.32)								
	Columns second floor		10	1.30		3.00	39.00		
			10	1.30		3.00	39.00		
							78.00	**406.08**	**31674.24**
	Basic rate	366.00							
	lift charges per floor	10.00							
	Area Weightage 8%	30.08							
	Final Rate	**406.08**							
	stair case								
12	KSRB 4-6.11 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2								
	Risers		13	1.5		0.15	2.93		

	Risers		9	1.5		0.15	2.03		
	Bottom waist slab		1	1.5		3.90	5.85		
			1	1.5		2.70	4.05		
			1	1.95		0.15	0.29		
			1	1.35		0.15	0.20		
	Total Qty	**Sqm**					**171.35**	**523.80**	**89750.51**
	Basic rate	475.00							
	lift charges per floor	10.00							
	Area Weightage 8%	38.8							
	Final Rate	**523.8**							
13	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitonsupto 3.50m from ground level. Specification No. KBS 4.6.2(Page No : 15, item No : 4.18)								
	first floor								
	Roof Slab		1	1	26.01	10.80	280.91		
	Landing		2	1	3	1.20	7.20		
	Total Qty	**Sqm**					**288.11**	**343.44**	**98947.81**
	Basic rate	313.00							
	additionalcharges per floor	5.00							
	Area Weightage 8%	25.44							
	Final Rate	**343.44**							
	Second floor								
	Roof Slab		1	1	26.01	10.80	280.91		
	Landing		1	1	3	1.20	3.60		
	Total Qty	**Sqm**					**284.51**	**348.84**	**99247.77**
	Basic rate	313.00							
	additionalcharges per floor	10.00							
	Area Weightage 8%	25.84							
	Final Rate	**348.84**							
14	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2(Page No : 16, item No : 4.34)								
	Ground Floor								
	Roof beam		1	2	2.00	0.45	1.80		
	Total Qty	**Sqm**					**1.80**	**276.48**	**497.66**
	Basic rate	256.00							
	additionalcharges per floor	0.00							
	Area Weightage 8%	20.48							
	Final Rate	**276.48**							
	first floor								
	Lintel		1	2	93.72	0.20	37.49		
	Roof beam		1	3	26.10	0.45	35.24		
			1	2	10.80	0.45	9.72		
			1	3	10.30	0.60	19.44		
			1	3	10.80	0.75	24.30		
	Total Qty	**Sqm**					**126.18**	**281.88**	**35568.46**

	Basic rate	256.00							
	additionalcharges per floor	5.00							
	Area Weightage 8%	20.88							
	Final Rate	**281.88**							
	Second Floor								
	Lintel	1	2	93.72		0.20	37.49		
	Roof beam	1	3	26.10		0.45	35.24		
		1	2	10.80		0.45	9.72		
		1	3	10.80		0.60	19.44		
		1	3	10.80		0.75	24.30		
	Total Qty	**Sqm**					**126.18**	**287.28**	**36249.85**
	Basic rate	256.00							
	additionalcharges per floor	10.00							
	Area Weightage 8%	21.28							
	Final Rate	**287.28**							
15	*KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (Page No : 13, item No : 4.11)*								
	Ground Floor								
	Columns at Staircase	1	2	0.20	0.45	3.00	0.54		
	footing	1	2	1.70	2.00	0.45	3.06		
	Total Qty	**Cum**					**3.60**	**6491.88**	**23370.77**
	Basic rate	6011.00							
	additionalcharges per floor	0.00							
	Area Weightage 8%	480.88							
	Final Rate	**6491.88**							
	first floor								
	Columns	1	10	0.20	0.45	3.20	2.88		
			10	0.20	0.45	3.20	2.88		
	stair case ground &first								
	Risers	2	13	1.5	0.30	0.15	1.76		
	Risers	2	9	1.5	0.30	0.15	1.22		
	Bottom waist slab	2	1	1.5	3.90	0.10	1.17		
		2	1	1.5	2.70	0.10	0.81		
	for teaching stage	3	1	5.00	3.00	0.15	6.75		
	Total Qty	**Cum**					**17.46**	**6545.88**	**114291.06**
	Basic rate	6011.00							
	additionalcharges per floor	50.00							
	Area Weightage 8%	484.88							
	Final Rate	**6545.88**							
	Second Floor								
	Columns	1	10	0.20	0.45	0.30	0.27		
	columns		10	0.20	0.45	0.30	0.27		

	Risers		13	1.5	0.30	0.15	0.88		
	Risers		9	1.5	0.30	0.15	0.61		
			1	1.5	1.95	0.10	0.29		
			1	1.5	1.35	0.10	0.20		
	Total Qty	**Cum**					**2.52**	**6599.88**	**16631.70**
	Basic rate	6011.00							
	additionalcharges per floor	100.00							
	Area Weightage 8%	488.88							
	Final Rate	**6599.88**							
16	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles, and beams retaining walls, return walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6. (P. No. 14/ I.No. 4.13								
	Ground Floor								
	Beam		2	0.20	0.45	2.00	0.36		
	Total Qty	**Cum**					**0.36**	**6650.64**	**2394.23**
	Basic rate	6158.00							
	additionalcharges per floor	0.00							
	Area Weightage 8%	**492.64**							
	Final Rate	**6650.64**							
	first floor								
	Roof Slab		1	26.01	10.80	0.15	42.14		
	Lintel	1	1	93.72	0.20	0.20	3.75		
	roof beams	1	3	26.10	0.20	0.45	7.05		
		1	2	10.80	0.20	0.45	1.94		
		1	3	10.80	0.20	0.60	3.89		
		1	3	10.80	0.20	0.75	4.86		
	Landing		2	1	1.2	0.15	0.36		
	Total Qty	**Cum**					**63.98**	**6704.64**	**428989.69**
	Basic rate	6158.00							
	additionalcharges per floor	50.00							
	Area Weightage 8%	**496.64**							
	Final Rate	**6704.64**							
	Second floor								
	Lintel	1	1	93.72	0.20	0.20	3.75		
	Roof Slab	1	1	26.01	10.80	0.15	42.14		
	roof beams	1	3	26.10	0.20	0.45	7.05		
		1	2	10.80	0.20	0.45	1.94		
		1	3	10.80	0.20	0.60	3.89		
		1	3	10.80	0.20	0.75	4.86		
	Landing		2	3	1.20	0.15	1.08		
	Total Qty	**Cum**					**64.70**	**6758.64**	**437311.04**
	Basic rate	6158.00							

	additionalcharges per floor	*100.00*						
	Area Weightage 8%	*500.64*						
	Final Rate	***6758.64***						
17	*KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 (Page No : 17, item No : 4.46.2)*							
	Ground Floor							
	220kg/cum for Footin		*3.06*	*220.00*		*673.20*		
	250kg/cum for Columns		*0.54*	*250.00*		*135.00*		
	250ka/cum for Beams		*0.36*	*250.00*		*90.00*		
	first floor							
	Roof Slab							
	250kg/cum for Columns		*5.76*	*250.00*		*1440.00*		
	250ka/cum for Beams		*7.05*	*250.00*		*1761.75*		
	150kg/cum for Slabs		*42.14*	*150.00*		*6320.43*		
	100kg/cum for Plinth, Lintel and Chajja		*3.75*	*100.00*		*374.88*		
	120kg/cum forstaircases		*4.95*	*120.00*		*594.00*		
						11389.26		
	Total Qty	***Tonne***				***11.39***	***75553.60***	***860499.59***
	Basic rate	*69520.00*						
	additionalcharges per floor	*472.00*						
	Area Weightage 8%	***5561.6***						
	Final Rate	***75553.6***						
	second floor staircase							
	250kg/cum for Columns		*0.54*	*250.00*		*135.00*		
	250ka/cum for Beams		*7.05*	*250.00*		*1761.75*		
	150kg/cum for Slabs		*42.14*	*150.00*		*6320.43*		
	100kg/cum for Plinth, Lintel and Chajja		*3.75*	*100.00*		*374.88*		
	120kg/cum forstaircases		*1.98*	*120.00*		*237.60*		
						8829.66		
	Total Qty	***Tonne***				***8.83***	***75553.60***	***667112.60***
	Basic rate	*69520.00*						
	additionalcharges per floor	*472.00*						
	Area Weightage 8%	***5561.6***						
	Final Rate	***75553.6***						
18	*Lift charges for steel of all diameters for additional floors over ground floor per floor height of 3.5 m. or part thereof cost of labour, complete as per specifications. (P.No. 18, I.No. 4.47 of PWD SR 2015-16))*							
	Total Qty	***Tonne***				***8.83***	***509.76***	***4501.01***
	Basic rate	*472.00*						
	Area Weightage 8%	*37.76*						
	Final Rate	***509.76***						

19	Providing and fixing M.S. Hand railing for Balcony with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete . The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing.								
	For staircase	1		31.00		1.2	**37.20**		
		1		29.00		1.2	**34.80**		
		1		29.00		1.2	**34.80**		
							106.80	**2857.68**	**305200.22**
	Total Qty	**Mtr**							
20	Providing and laying pattern flooring for staircase treads and risers using the combination of 20mm thick ruby red granite @ 66%,20 mm thick grey granite @ 20%, 20mm thick, 20mm thick black granite 14%. The granite materials are laid on existing bed of CM 1:3 20mm thick pointed with colour pigment, including full rounding for nosing, flaming the ruby red granite for 50 mm wide curing etc., complete as per specification.								
	For staircase	**sqm**							
	Rises	**3**	21	1.50	0.15		14.18		
	Treads	**3**	19	1.50	0.30		25.65		
	Landing	**3**	1	1.50	3.00		13.50		
							53.33	6181.92	329650.884
21	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4(Page No :25, item No : 5.27.1)								
	First floor								
	Walls	1	1	93.72		3.00	281.16		
	Deduction for openings								
	Door D1	4	-1	1.20		2.10	-10.08		
	Windows	-1	10	1.50		1.50	-22.50		
	for teching stage	3	1	16.00		0.50	24.00		
	Total Qty	**Sqm**					**272.58**	**1041.96**	**284017.46**
	Basic rate	937.00							
	additionalcharges per floor	30.00							
	Area Weightage 8%	74.96							
	Final Rate	**1041.96**							
	Second floor								
	Walls	1	1	93.72		3.00	281.16		
	Deduction for openings								
	Door D1	4	-1	1.20		2.10	-10.08		
	Windows	-1	10	1.50		1.50	-22.50		
	Total Qty	**Sqm**					**793.74**	**1071.96**	**850857.53**
	Basic rate	937.00							

	additionalcharges per floor	60.00							
	Area Weightage 8%	74.96							
	Final Rate	**1071.96**							
22	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4(Page No :25, item No : 5.27.2)								
	First floor								
	Toilet walls	1	1	15.40		2.70	41.58		
	Deduction for openings								
	Door D2	1	-3	0.90		1.85	-5.00		
	Ventilators	1	-3	0.60		0.60	-1.08		
	Compound Wall		1	59		1.80	106.20		
	Total Qty	**Sqm**					**141.71**	**927.48**	**131428.55**
	Basic rate	831.00							
	additionalcharges per floor	30.00							
	Area Weightage 8%	66.48							
	Final Rate	**927.48**							
	Second floor								
	Internal walls	1	1	15.40		2.70	41.58		
	Parapet wall	1	1	78.62		0.90	70.76		
	Total Qty	**Sqm**					**112.34**	**957.48**	**107561.39**
	Basic rate	831.00							
	additionalcharges per floor	60.00							
	Area Weightage 8%	66.48							
	Final Rate	**957.48**							
23	KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(Page No :114, item No : 15.20)								
	External plaster								
	First floor		1	93.72		3.3	309.276		
	for extra works						30.9276		
	Compound Wall		2	25		1.8	90		
	Total Qty	**Sqm**					**430.20**	**229.64**	**98791.95**
	Basic rate	208.00							
	additionalcharges per floor	5.00							
	Area Weightage 8%	16.64							
	Final Rate	**229.64**							
	External plaster								
	second floor		1	93.72		3.3	309.276		

	for extra works						15.4638		
	Total Qty	**Sqm**					**324.74**	**234.64**	**76196.95**
	Basic rate	208.00							
	additionalcharges per floor	10.00							
	Area Weightage 8%	16.64							
	Final Rate	**234.64**							
24	KSRB15-3.4 : Providing 15mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications...(Page No.113, Item No.15.12)								
	Internal Plastering								
	First floor								
	Walls	1	1	187.44		3.00	562.32		
	Deduction for openings								
	Door D1	4	-1	1.20		2.10	-10.08		
	Door D2	3	-1	0.90		1.85	-5.00		
	Ventilators	1	-3	0.60		0.60	-1.08		
	Windows	-1	10	1.50		1.50	-22.50		
	walls	1	1	30.80		2.70	83.16		
	Total Qty	**Sqm**					**606.83**	**226.40**	**137385.18**
	Basic rate	205.00							
	additionalcharges per floor	5.00							
	Area Weightage 8%	16.40							
	Final Rate	**226.40**							
	Second floor								
	Internal walls	1	1	187.44		1.90	356.14		
	Deduction for openings								
	Door D1	4	-1	1.20		2.10	-10.08		
	Parapet wall	2	1	78.62		0.90	141.52		
	Windows	-1	10	1.50		1.50	-22.50		
	Basic rate	205.00					**465.07**	**231.40**	**107617.66**
	additionalcharges per floor	10.00							
	Area Weightage 8%	16.40							
	Final Rate	**231.40**							
25	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.No. 113, I.No. 15.21 of PWD SR 2015-16)								
	Ceiling first floor	1	1	26.01	10.80		280.91	**213.84**	**60069.37**
	Basic rate	193.00							
	additionalcharges per floor	5.00							
	Area Weightage 8%	15.84							
	Final Rate	**213.84**							

	Ceiling second floor	1	1	26.01	10.80		280.91		
	Total Qty	**Sqm**					**280.91**	**219.24**	**61586.27**
	Basic rate	193.00							
	additionalcharges per floor	10.00							
	Area Weightage 8%	16.24							
	Final Rate	**219.24**							
26	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. (Page No. 125, Item No. 15.106)								
	Same As Internal and Ceiling Plastering Qnty first floor								
	Total Qty	**Sqm**					**887.73**	**63.48**	**56353.29**
	Basic rate	56.00							
	additionalcharges per floor	3.00							
	Area Weightage 8%	4.48							
	Final Rate	**63.48**							
	Same As Internal and Ceiling Plastering Qnty second floor								
	Total Qty	**Sqm**					**745.98**	**66.48**	**49592.75**
	Basic rate	56.00							
	additionalcharges per floor	6.00							
	Area Weightage 8%	4.48							
	Final Rate	**66.48**							
27	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. (P. No. 118, I.No. 15.53.2).								
	Same As External Plastering Qnty								
	Total Qty	**Sqm**					**430.20**	**93.96**	**40421.93**
	Basic rate	**84**							
	Area Weightage 8%	**6.96**							
	lift charges per floor	**3**							
	Final Rate	**93.96**							
	Same As External Plastering Qnty second floor								
	Total Qty	**Sqm**					**324.74**	**97.20**	**31564.71**
	Basic rate	**84**							
	Area Weightage 8%	**7.2**							
	lift charges per floor	**6**							
	Final Rate	**97.20**							

28	Providing and applying two coats with Plastic emulsion paint of approved brand wall surface to a give an even approved shade after throuughly brushing the surface,free from mortar drops and other foreign matter, including priming , including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications,with primer. (Page No : 117, item No :15.51.2)For internal walls.								
	Same As Internal Plastering Qnty								
	Total Qty	**Sqm**					**606.83**	**100.44**	**60949.50**
	Basic rate	**90**							
	Area Weightage 8%	**7.44**							
	lift charges per floor	**3**							
	Final Rate	**100.44**							
	Same As Internal Plastering Qnty second floor								
	Total Qty	**Sqm**					**465.07**	**103.68**	**48218.66**
	Basic rate	**90**							
	Area Weightage 8%	**7.68**							
	lift charges per floor	**6**							
	Final Rate	**103.68**							
29	Providing and applying two coats with Plastic emulsion paint of approved brand wall surface to a give an even approved shade after throuughly brushing the surface,free from mortar drops and other foreign matter, including priming , including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications,with primer. (Page No : 117, item No :15.51. 2 & 3) for ceiling								
	Same As Ceiling Plastering Qnty								
	Total Qty	**Sqm**					**280.91**	**101.52**	**28517.78**
	Basic rate	**94**							
	Area Weightage 8%	**7.76**							
	lift charges per floor	**3**							
	Final Rate	**104.76**							
	Same As Ceiling Plastering Qnty								
	Total Qty	**Sqm**					**280.91**	**108.00**	**30338.06**
	Basic rate	**94**							
	Area Weightage 8%	**8**							
	lift charges per floor	**6**							
	Final Rate	**108.00**							
30	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6)								
	for verandah		1	25.00	2.50	0.10	6.25		

	Total Qty	**Sqm**					**6.25**	**5930.28**	**37064.25**
	Basic rate	**5441**							
	Area Weightage 8%	**439.28**							
	lift charges per floor	**50**							
	Final Rate	**5930.28**							
31	KSRB 7.9:Providing and fixing M.S.gill work for windows and ventilators using M.S.flats, or M.S. square rods, or combination of M.S.flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12 . (Page No : 32, item No :7.9)								
	Windows first floor		10	1.50		1.50	22.50		
	Windows second floor		10	1.50		1.50	22.50		
	ventilators		6	0.65		0.65	2.54		
							47.54		
	at 21kgs/sqm						998.24		
	Total Qty	**Kgs**					**998.24**	**84.24**	**84091.32**
32	KSRB 7.10 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No. KBS								
	0								
	Windows first floor		10	1.50		1.50	22.50		
	Windows second floor		10	1.50		1.50	22.50		
	ventilators		6	0.60		0.60	2.16		
	Total Qty	**Sqm**					47.16	**4123.44**	**194461.43**
33	Providing and fixing Special make glazed Vitrified tiles (Granomite finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special roffe adhesive for flooring and skirting etc., complete including providing spears at required interval and removing stains etc., complete. (P.No. 107, I.No. 14.43).								
	Flooring first floor	1	1	22.00	8.30		182.60		
	skirting		1	158.80	0.15		23.82		
	for Verandah ground and first		2	25.00	2.50		125.00		

	Total Qty	**Sqm**					**331.42**	**1286.82**	**426477.88**
	Basic rate	**1190**							
	Area Weightage 8%	**95.32**							
	lift charges per floor	**1.5**							
	Final Rate	**1286.82**							
	Flooring first floor	*1*	*1*	*22.00*	*8.30*		*182.60*		
	skirting		*1*	*158.80*	*0.15*		*23.82*		
	for Verandah		*1*	*25.01*	*2.50*		*62.53*		
	Total Qty	**Sqm**					**268.95**	**1288.32**	**346487.22**
	Basic rate	**1190**							
	Area Weightage 8%	**95.32**							
	lift charges per floor	**3**							
	Final Rate	**1288.32**							
34	*KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. - for Ceramic tiles 30cm x 60cm 6mm thick on a bed of 20mm thicks.*								
	flooring	**sqm**							
	Toilet		*1*	*3.50*	*8.40*	*sqm*	**29.40**	*1272.24*	**37403.86**
35	*Providing and fixing of clay tiles for cladding tiles of size 230x75x10mm thick on 12mm thick cement mortar 1:3 & jointed with Adhesive / cement slurry over rough plaster surface excluding cost of rough plasterd surface and the surface is painted with red apex paint and black apex paint into the groves.*								
	Toilet								
	walls	*1*	*1*	*29.50*		*1.35*	*39.83*		
	Deduction for openings								
	Door D2	*1*	*-3*	*0.60*		*1.50*	*-2.70*		
	Internal walls	*1*	*1*	*27.75*		*1.35*	*37.46*		
	Deduction for openings								
	Door D2	*1*	*-3*	*-0.60*		*1.35*	*2.43*		
							77.02	**1783.62**	**137369.95**
	Basic rate	*1650*							
	Area Weightage 8%	*132.12*							
	lift charges per floor	*1.5*							
	Final Rate	**1783.62**							
36	*Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 1200mm (P.No.107, I.No.14.47.1)*								
	for urinals	*Sqm*	*3*	*0.90*		*1.20*	*3.24*	**2828.52**	**9164.40**
	Basic rate	*2619*							
	Area Weightage 8%	*209.52*							
	Final Rate	**2828.52**							

37	KSRB 9.4-2 : Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33								
	(P.No48, I.No. 9.11 of PWD SR 2016-17).								
	internal doors D1	**cum**	8	6.8	0.1	0.13	**0.68**	111083.40	**75536.72**
	Basic rate	102855.00							
	Area Weightage 8%	8228.40							
	Final Rate	**111083.40**							
38	KSRB 9.5-2 : Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34								
	(P.No.47, I.No. 9.15 of PWD SR 2016-17).								
	internal doors D1	**Sqm**	8	1.2		2.1	**20.16**	5014.44	**101091.12**
	Basic rate	4643.00							
	Area Weightage 8%	371.44							
	Final Rate	**5014.44**							
39	SOLID PANEL PRELAM PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Prelam Panelled Door Shutters made from M.S. tube of 19x19mm, 19 gauge for styles and 15x15mm for top & bottom rails, covered with heat moulded Prelaminated PVC C Channel of 5mm thick sheet & 30x50mm wide to form styles & 5mm thick & 75mm wide Prelaminated PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S. frame, Sealed to the styles & rails with PVC Designer beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75mm. Aluminium hinges. with both side prelam(item no 9.85.1 page no 58)								
	PVsc doors for toilet 1		3	0.65		1.90	**3.71**		
		Sqm					**3.71**	**4368.60**	**16185.66**
	Basic rate	4045.00							
	Area Weightage 8%	323.60							
	Final Rate	**4368.60**							
40	SOLID PVC DOOR FRAME Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge.								
	PVsc doors for toilet 1	sqm	3	0.65		1.9	**3.71**		

								3.71	568.08	2104.74
	Basic rate	526								
	Area Weightage 8%	42.08								
	Final Rate	**568.08**								
41	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locI<ing arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(For 1 000 litre capacity) Specification No.KBS 13.22 (P.No.94, I.No.13.78 of PW, P&IWTD S.R 2016-17)									
		1	4					4.00		
	Total Qty	**each**						4.00	**9144.36**	**36577.44**
	Basic rate	8467.00								
	Area Weightage 8%	677.36								
	Final Rate	**9144.36**								
42	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes. (P.No.96, I.No. 13.86.2 of PWD SR 2016-17)									
	20mm Nominal OD Pipes	1	70					70.00		
	Total Qty	**m**						**70.00**	**226.80**	**15876.00**
	Basic rate	210								
	Area Weightage 8%	16.8								
	Final Rate	**226.80**								
43	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal OD pipes(P.No.96, I.No. 13.86.3 of PWD SR 2016-17)									
	25mm nominal OD pipes	1	60	--	--	--		60.00		
	Total Qty	**m**						**60.00**	**270.00**	**16200.00**
44	KSRB13-8.5 : Providing and fixing to wall, ceiling and floor, low density polyethylene pipes 6.00 kgf/sq.cm working pressure 110mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9(P.No.94, I.No.13.70.4 of PW, P&IWTD S.R 2016-17)									
	110mm Outer dia	1	30	--	--	--		30.00		
	Total Qty	**m**						**30.00**	**384.48**	**11534.40**
	Basic rate	356								
	Area Weightage 8%	28.48								
	Final Rate	**384.48**								

45	KSRB 11-15.3 : Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications. (P.No.82, I.No. 12.41 of PWD SR 2016-17)								
		1	2	--	--	--	2.00		
	Total Qty	**unit**					**2.00**	**1274.40**	**2548.80**
	Basic rate	1180.00							
	Area Weightage 8%	94.40							
	Final Rate	**1274.40**							
46	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia. (P.No. 88, I.No. 12.111 of PWD SR 2016-17)								
		1	4	--	--	--	4.00		
	Total Qty	**each**					**4.00**	**172.80**	**691.20**
	Basic rate	160							
	Area Weightage 8%	12.8							
	Final Rate	**172.80**							
47	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 10cms x 7.5cms (P.No. 88, I.No. 12.113.1 of PWD SR 2016-17)								
		1	4	--	--	--	4.00		
	Total Qty	**each**					**4.00**	**270.00**	**1080.00**
	Basic rate	250.00							
	Area Weightage 8%	20.00							
	Final Rate	**270.00**							
48	KSRB13-6.1-1 : Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 (P.No. 91, I.No. 13.23 of PWD SR 2016-17)								
		1	4	--	--	--	4.00		
	Total Qty	**each**					**4.00**	**262.44**	**1049.76**
49	KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. (P.No.91/ I.No. 13.34 of CSR 2016-17)								
		1	5	--	--	--	5.00		
	Total Qty	**each**					**5.00**	**648.00**	**3240.00**
	Basic rate	600.00							
	Area Weightage 8%	48.00							
	Final Rate	**648.00**							
50	KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. (P.No.91/ I.No. 13.33 of CSR 2016-17)								
		1	6	--	--	--	6.00		

	Total Qty	**each**					**6.00**	**441.72**	**2650.32**
	Basic rate	409							
	Area Weightage 8%	32.72							
	Final Rate	**441.72**							
51	Constructing brick masonry inspection chamber 450x450mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 450x450mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 450x450mm (P.No. 73/ I.No.11.50.2 of PWD SR 2016-17)								
		1	4	--	--	--	4.00		
	Total Qty	**Nos**					**4.00**	**5771.52**	**23086.08**
	Basic rate	5344.00							
	Area Weightage 8%	427.52							
	Final Rate	5771.52							
52	KSRB 11-2 : Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. (P.No. 77, I.No.12.2 of PWD SR 2015-16).(P.No.77 I.No.12.2 of CSR 2016-17)								
		1	3	--	--	--	3.00		
	Total Qty	**Each**					**3.00**	**4682.88**	**14048.64**
	Basic rate	4336							
	Area Weightage 8%	346.88							
	Final Rate	**4682.88**							

53	KSRB 10-2 : Providing and laying in position yelahanka tiles of size 250 x 250mm of approved quality and make, over a bed of cement mortar 1:3 an average thickness 25mm over weather proof course and pointed with cement mortar 1:3 mix with red oxide including curing cost of materials, labour complete as per specifications. Specification No. KBS (P.No.80 I.No.10.1 of CSR 2016-17)								
		1	1	26.01	10.80	--	280.91		
	Total Qty	**unit**					**280.91**	**868.32**	**243918.03**
	Basic rate	804.00							
	Area Weightage 8%	64.32							
	Final Rate	**868.32**							
54	KSRB 11-7.4 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm in the range of four with 10 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. (P.No. 77 I.No.12.2 of PWD SR 2015-16) (P.No.77 I.No.12.10 of CSR 2016-17)								
		1	3	--	--	--	3.00		
	Total Qty	**Each**					**3.00**	**7354.80**	**22064.40**
	Basic rate	6810.00							
	Area Weightage 8%	544.80							
	Final Rate	**7354.80**							
55	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (P.No.80 I.No.12.23 of CSR 2016-17)								
		1	1	--	--	--	1.00		
	Total Qty	**unit**					**1.00**	**4196.88**	**4196.88**
	Basic rate	3886.00							
	Area Weightage 8%	310.88							
	Final Rate	**4196.88**							

ADMINISTRATIVE APPROVAL
Accorded For Rs. Nine Five lakhs only
Head of A/c. P-3333
Div. Ref. No. 170/17-18 Date. 27/01/18
EE(BTP) 27/01
AE

Technical Sanction
Accorded For Rs. Nine Five lakhs only
Head of A/C. P-3333
CER NO : TC/555/17-18. 27.01.18
[TA] [CE (YNK)]

56	TOTAL :	8105983.38
57	Cost towardsElectrical Works	500000.00
58	Cost towards PMC / Third Party inspection LS	81060.00
	Cost towards Tender Premium 10%	810598.34
	Sub Total	9497641.71
59	Miscellaneous and rounding off	2358.29
	Total	9500000.00

Certificate.

1 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
2 The provisions made in the estimate are necessary and essential.
3 The workspot was inspected and work is found to be necessary.
4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

W.08

EE (BTP)